**Independent Investigation Presearch Document**

**DUE THIRD DAY OF CLASS**

Next year in IB Chem 1, you be required to enter the Mount Vernon Science Fair with an independent investigation. It will count as 10% of your overall grade for the course. It is REQUIRED!!!! To that end we want you to begin exploring topic ideas this summer. You are not required to do a chemistry project. You can choose to do a “wet” lab or utilize data from a database to conduct your investigation. This assignment will help you get started.

Before you begin finding specific sources for your IV, DV combination- conduct some “presearch”. These sources can be wikipedia or any other source that provides you with basic information and helps you focus in on an IV, DV combination . DO NOT include those sources in your Annotated Bibliography. Use those sources to find good “key words” and ideas to research in scientific journals and other reputable sources. Use these sources to build your background knowledge about your topic. For example, if you are going to study pH, you should know what pH means, what it measures, etc…. Then your sources for your annotated bibliography can focus on what impact/effect pH may have on your DV based on scientific studies that have already been conducted. Please feel free to add rows as needed but you should have 5 presearch sources as a minimum.

To start your thinking, go to MVHS webpage, select the Library Tab. Scroll down to Online Databases. Select Gale Databases. The password to get in Gale is “mvhs”. Scroll down to Science in Context. Click on an advanced search and then select by document type and select Experiment Activity. Click on Experiments. On the Right Side expand the subjects filter. Choose any topic that peaks your interest. Read the basic information and continue to scroll through the pages, identify words to know, and then toward the bottom, and find SAMPLE experiments there as a place to start. DO NOT USE THESE EXACT experiments. Use them as a starting point. Each experiment has scientific references to expand your research.

**Complete Template Below**

**General Topic**:

|  |  |  |
| --- | --- | --- |
| **Source** | **Background Information** | **Potential IV or DV?** |
| Sample :<https://en.wikipedia.org/wiki/PH> | Sample:In chemistry, **pH** (/piːˈeɪtʃ/) (potential of hydrogen) is a logarithmic scale used to specify the acidity or basicity of an aqueous solution. It is approximately the negative of the base 10 logarithm of the molar concentration, measured in units of moles per liter, of hydrogen ions. | Potential IV |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |